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TECHSPEC® 50mm Dia. Protected Gold Coated, $\lambda/10$ ZERODUR® Mirror

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Stock #39-868 **1 In Stock**

⊖ 1 ⊕ €280⁰⁰

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Volume Pricing

Qty 1-5	€280,00 each
Qty 6-25	€224,00 each
Qty 26-49	€210,00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Flat Mirror **Type:**

Physical & Mechanical Properties

50.00 +0.00/-0.20 **Diameter (mm):**

Thickness (mm):

5.00 ±0.20

Commercial Polish **Back Surface:**

Protective as needed **Bevel:**

90 **Clear Aperture (%):**

Ground **Edges:**

30 **Parallelism (arcsec):**

Optical Properties

Metal **Coating Type:**

Protected Gold (700-10000nm) **Coating:**

$\lambda/10$ **Surface Flatness (P-V):**

700 - 10000 **Wavelength Range (nm):**

Substrate:

ZERODUR®

Coating Specification:

$R_{avg} >96\%$ @ 700 - 2000nm
 $R_{avg} >96\%$ @ 2000 - 10,000nm

20-10 **Surface Quality:**

Damage Threshold, Reference:
0.8 J/cm² @ 1064nm, 10ns

Material Properties

Coefficient of Thermal Expansion CTE (10⁻⁶/°C):

0.1

Regulatory Compliance

RoHS 2015:

Compliant

Certificate of Conformance:

[View](#)

Reach 247:

Compliant

Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Product Details

- Precision ZERODUR® Substrates
- $\lambda/10$ Flatness
- Low Coefficient of Thermal Expansion

TECHSPEC® ZERODUR® $\lambda/10$ First Surface Mirrors are well suited for applications where temperature fluctuation is a concern. The ZERODUR® substrates have a coefficient of thermal expansion (CTE) of $\pm 0.10 \times 10^{-6}/^{\circ}\text{C}$, which is an order of magnitude lower than most glass types. The low CTE allows these mirrors to have a consistent reflected wavefront, even when exposed to environments with varying temperature or illumination sources with changing intensity. TECHSPEC® ZERODUR® $\lambda/10$ First Surface Mirrors feature precision polished substrates with $\lambda/10$ flatness and 20-10 surface quality. Multiple metallic and enhanced metallic coating options are available, allowing for these mirrors to be easily integrated into applications in both the visible and infrared spectrum.

Note: Surface flatness is measured before coating.

Compatible Mounts